

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 06-279741

(43) Date of publication of application : 04.10.1994

(51) Int.Cl. C09J 7/02
C09J 7/02
C09J 7/02

(21) Application number : 05-092207 (71) Applicant : SEIKO:KK

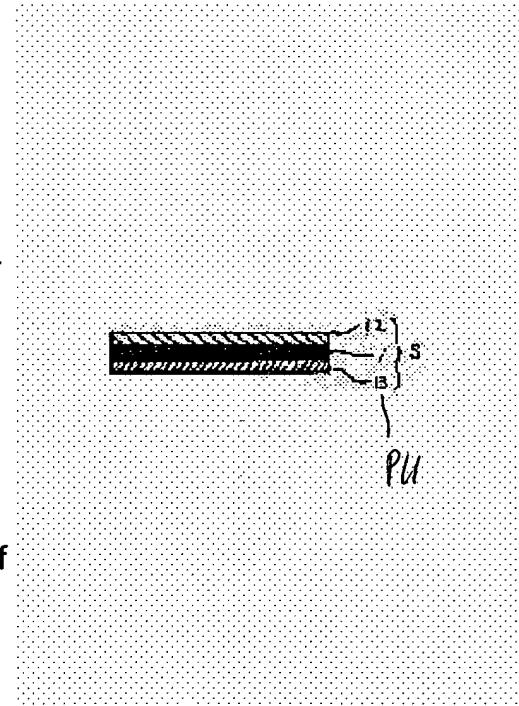
(22) Date of filing : 25.03.1993 (72) Inventor : IKUMA SEIICHIRO

(54) HETEROGENEOUS DOUBLE-COATED SELF-ADHESIVE SHEET, AND DUST REMOVAL MAT, ARTICLE-FIXING MAT, AND ARTICLE-SUPPORTING MAT USING HETEROGENEOUS DOUBLE-COATED SELF-ADHESIVE SHEET

(57) Abstract:

PURPOSE: To provide the sheet which comprises a substrate sheet, a specific self-adhesive layer formed on one side of the substrate sheet, and an adhesive layer formed on the other side and can be fixed to a suitable place with the adhesive layer and the self-adhesive layer of which is hardly transferable to an adherend and can be repeatedly washed with water and used.

CONSTITUTION: A self-adhesive layer 13 comprising a repeatedly usable polyurethane self-adhesive is formed on one side of a substrate sheet 1, and on the other side, an adhesive layer 12 is formed. Pref. on one side of a substrate sheet for a mat the self-adhesive layer is formed and on the other side, the adhesive layer is formed. Thus obtd. double-coated self-adhesive sheet is then fixed to a suitable place with the adhesive layer and the self-adhesive layer is used for removing dust, e.g. of shoes, and the like.



LEGAL STATUS

[Date of request for examination]

24.03.2000

[Date of sending the examiner's decision of 06.11.2001
rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

*** NOTICES ***

JPO and NCIP are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] the heterogeneous adhesion double-sided sheet characterized by this radical sheet member having been alike on the other hand, and forming an adhesives layer while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible.

[Claim 2] the dirt clearance mat characterized by carrying out adsorption treatment of the dirt by said polyurethane pressure-sensitive adhesive layer while this radical sheet member is alike on the other hand, and an adhesives layer is formed while forming the adhesive layer which becomes one side of the radical sheet member for mats from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, and fixing said radical sheet member for mats to a part suitably by said adhesives layer.

[Claim 3] the article firmly attached seat characterized by fixing an article removable suitably by said polyurethane pressure-sensitive adhesive layer while this radical sheet member is alike on the other hand, and an adhesives layer is formed while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, and fixing said radical sheet member to a part suitably by said adhesives layer.

[Claim 4] the article support sheet characterized by supporting an article removable suitably by said polyurethane pressure-sensitive adhesive layer while this radical sheet member is alike on the other hand, and an adhesives layer is formed while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, and fixing said radical sheet member to a part suitably by said adhesives layer.

[Translation done.]

*** NOTICES ***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]**[0001]**

[Industrial Application] This invention relates to the goods support which used the goods fastener which used the dirt removal mat which used a heterogeneous adhesion double-sided sheet and this heterogeneous adhesion double-sided sheet, and this heterogeneous adhesion double-sided sheet, and this heterogeneous adhesion double-sided sheet.

[0002]

[Description of the Prior Art] If it was in the double-sided pressure sensitive adhesive sheet in the former, when preparing an adhesives layer in both sides of a radical sheet member, for example, applying to a dirt removal mat, while carrying out adhesion immobilization of that inferior surface of tongue at base material, such as a board, that top face was exposed, and that adhesive strength had removed the dirt of a sole by putting shoes on this top face.

[0003]

[Problem(s) to be Solved by the Invention] However, in applying, since the adhesives layer was only prepared in both sides of a radical sheet member if it was in this conventional double-sided pressure sensitive adhesive sheet, as a result of periodic duty's being impossible, a disposable fake colander was not obtained, but while taking and being hard to remove from goods moreover, it had un-arranging [of having damaged or been easy to soil the goods concerned].

[0004] The technical problem of this invention is canceling this un-arranging.

[0005]

[Means for Solving the Problem] in the heterogeneous adhesion double-sided sheet concerning this invention, in order to attain said technical problem, while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, on the other hand, this radical sheet member is alike, and an adhesives layer is formed.

[0006] moreover, in the mat for dirt removal, while forming the adhesive layer which becomes one side of the radical sheet member for mats from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, on the other hand, this radical sheet member is alike, an adhesives layer is formed, and while fixing said radical sheet member for mats to a part suitably by said adhesives layer, adsorption treatment of the dirt is carried out by said polyurethane pressure-sensitive adhesive layer.

[0007] moreover, in a goods firmly attached seat, while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, on the other hand, this radical sheet member is alike, an adhesives layer is formed, and while fixing said radical sheet member to a part suitably by said adhesives layer, goods are suitably fixed removable by said polyurethane pressure-sensitive adhesive layer.

[0008] moreover, in a goods support sheet, while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible, on the other hand, this radical sheet member is alike, an adhesives layer is formed, and

while fixing said radical sheet member to a part suitably by said adhesives layer, goods are suitably supported removable by said polyurethane pressure-sensitive adhesive layer.

[0009]

[Function] Since it forms the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides while it can carry out adhesion immobilization suitably with these adhesives at a body, since it is constituted as mentioned above (i.e., since the heterogeneous adhesion double-sided sheet concerning this invention formed the adhesives layer in one side), it can wash in cold water and it can be repeatedly used while adhesion material cannot shift to ****-ed easily.

[0010] Furthermore, the activity mitigation and the purpose according to the location stuck by changing the adhesion reinforcement of said polyurethane pressure-sensitive adhesion material can be raised further.

[0011] Moreover, since it forms the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides while it can carry out adhesion immobilization suitably with these adhesives at a body, since it is constituted as mentioned above (i.e., since the mat for dirt removal concerning this invention formed the adhesives layer in one side), it can be washed in cold water and used repeatedly.

[0012] Moreover, since it forms the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides while it can carry out adhesion immobilization suitably with these adhesives at a body, since it is constituted as mentioned above (i.e., since the goods firmly attached seat concerning this invention formed the adhesives layer in one side), it can be repeatedly used while adhesion material cannot shift to ****-ed easily.

[0013] Moreover, since it forms the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides while it can carry out adhesion immobilization suitably with these adhesives at a body, since it is constituted as mentioned above (i.e., since the goods support sheet concerning this invention formed the adhesives layer in one side), it can be repeatedly used while adhesion material cannot shift to ****-ed easily.

[0014]

[Example]

[0015] In drawing 1, S is a heterogeneous adhesion double-sided sheet concerning this invention, and 1 is that radical sheet member. This radical sheet member 1 may be what kind of ingredients, such as elasticity resin, paper, textiles, and a nonwoven fabric.

[0015] 12 is an adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible, and is formed in the front face (one side) of said radical sheet member 1. This adhesive layer 2 consists of polyurethane pressure-sensitive adhesion material, and this adhesion material is manufactured by the reaction of polyol and organic diisocyanate. Speaking concretely, furthermore, the prepolymer which has the end isocyanate radical from which the number of average functional groups makes a kind of 2 thru/or 2.6, or two sorts or more of polyol mixture react with superfluous organic diisocyanate, and is obtained The polyurethane which the sum with the number of average functional groups of polyol mixture which the number of average functional groups is two or more, and is the component of a prepolymer exceeded 4, and NCO/OH equivalent ratio made a kind which is not larger than 5, or two sorts or more of polyol mixture react by 0.65-1.15, and was obtained is suitable. In addition, extent of adhesion of the adhesive layer 2 concerned can be adjusted by adjusting extent of a reaction.

[0016] 13 is a glue line and is formed in the rear face (on the other hand) of said radical sheet member 1. This glue line 13 is formed by applying the usual adhesives (thing in which periodic duty is impossible as a principle).

[0017] Next, drawing 2 and drawing 3 show the example of the dirt removal mat M concerning this invention. This dirt removal mat M carries out adhesion immobilization of said heterogeneous adhesion double-sided sheet S by that glue line 13 on the front face of the base material 2. And adsorption treatment of the dirt of the base in shoes 3, the dust in air, etc. is carried out by the adhesive layer 12

which consists of polyurethane pressure-sensitive adhesion material. When the removal mat M becomes dirty with dust etc., it rinses and this dust etc. is removed, and if it dries, it can be used again. In this case, the "radical sheet member 2 for mats" of the invention in this application is equivalent to the radical sheet member 1 of said heterogeneous adhesion double-sided sheet S.

[0018] Next, drawing 4 and drawing 5 show the example of goods firmly attached seat A concerning this invention. This goods firmly attached seat A carries out adhesion immobilization of said heterogeneous adhesion double-sided sheet S by that glue line 13, and fixes the object for disinfection, or the parts 5 for deodorization (it is equivalent to the "goods" of this invention) to the transmission section installation crevice (it is equivalent to "being a part suitably") 41 of the body 4 of telephone removable by the adhesive layer 12 which consists of that polyurethane pressure-sensitive adhesion material. [of this invention] Since an adhesive layer 12 can maintain adhesion on an abbreviation permanent target, it can perform freely changing of the object for disinfection, or the parts 5 for deodorization.

[0019] Moreover, drawing 6 and drawing 7 use this goods firmly attached seat A for adhesion immobilization of the rubber 61 in the racket 6 for table tennis.

[0020] Next, drawing 8 shows the example of goods support sheet B concerning this invention. This goods support sheet B carries out adhesion immobilization of said heterogeneous adhesion double-sided sheet S by that glue line 13 on the front face (it is equivalent to "being a part suitably") 71 of a desk 7, and supports it in primary by fixing cop (it being equivalent to "goods" of this invention) 8 grade to the adhesive layer 12 which consists of that polyurethane pressure-sensitive adhesion material removable. [of this invention] Since an adhesive layer 12 can maintain adhesion on an abbreviation permanent target, the front face 71 of a desk 7 can support goods in the state of changing freedom.

[0021]

[Effect of the Invention] the heterogeneous adhesion double-sided sheet concerning this invention, since this radical sheet member was alike on the other hand and the adhesives layer was formed, while forming the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible. Namely, since the adhesives layer was formed in one side, while being able to carry out adhesion immobilization suitably with these adhesives at a body. Since the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides is formed, while adhesion material cannot shift to ****-ed easily, it can be washed in cold water and used repeatedly.

[0022] Therefore, like before, if this heterogeneous adhesion double-sided sheet is used, since it is not necessary to exchange, while also being able to prevent throwing away and being able to improve economical efficiency therefore, ****-ed of adhesion material will not be polluted or damaged.

[0023] Furthermore, the activity mitigation and the purpose according to the location stuck by changing the adhesion reinforcement of said polyurethane pressure-sensitive adhesion material can be raised further.

[0024] Moreover, on the other hand, this radical sheet member boils the mat for dirt removal concerning this invention, and it forms an adhesives layer while it forms the adhesive layer which becomes one side of the radical sheet member for mats from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible. Since it is what carries out adsorption treatment of the dirt by said polyurethane pressure-sensitive adhesive layer while fixing said radical sheet member for mats to a part suitably by said adhesives layer. That is, since the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides is formed while being able to carry out adhesion immobilization suitably with these adhesives at a body, since the adhesives layer was formed in one side, it can be washed in cold water and used repeatedly.

[0025] If this mat for dirt removal is used, since it is not necessary to exchange unlike the former, throwing away can be prevented and, therefore, economical efficiency improves.

[0026] Moreover, on the other hand, this radical sheet member boils the goods firmly attached seat concerning this invention, and it forms an adhesives layer while it forms the adhesive layer which

becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible. Since it is what fixes goods removable suitably by said polyurethane pressure-sensitive adhesive layer while fixing said radical sheet member to a part suitably by said adhesives layer, Namely, since the adhesives layer was formed in one side, while being able to carry out adhesion immobilization suitably with these adhesives at a body Since the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides is formed, while adhesion material cannot shift to ****-ed easily, it can be used repeatedly.

[0027] If this goods firmly attached seat is used, since it is not necessary to exchange unlike the former, throwing away can be prevented and, therefore, economical efficiency improves.

[0028] Moreover, on the other hand, this radical sheet member boils the goods support sheet concerning this invention, and it forms an adhesives layer while it forms the adhesive layer which becomes one side of a radical sheet member from the polyurethane pressure-sensitive adhesion material in which periodic duty is possible. Since it is what supports goods removable suitably by said polyurethane pressure-sensitive adhesive layer while fixing said radical sheet member to a part suitably by said adhesives layer, Namely, since the adhesives layer was formed in one side, while being able to carry out adhesion immobilization suitably with these adhesives at a body Since the adhesive layer which consists of polyurethane pressure-sensitive adhesion material in which periodic duty is possible as an adhesive layer of other sides is formed, while adhesion material cannot shift to ****-ed easily, it can be used repeatedly.

[0029] If this goods support sheet is used, since it is not necessary to exchange unlike the former, throwing away can be prevented and, therefore, economical efficiency improves.

[Translation done.]

*** NOTICES ***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the sectional view of the heterogeneous adhesion double-sided sheet concerning this invention.

[Drawing 2] It is the perspective view of the dirt removal mat concerning this invention.

[Drawing 3] III-III in **drawing 2** It is a line expanded sectional view.

[Drawing 4] It is the explanatory view of the goods firmly attached seat concerning this invention.

[Drawing 5] V-V in **drawing 4** It is a line expanded sectional view.

[Drawing 6] It is the explanatory view of other examples of the goods firmly attached seat concerning this invention.

[Drawing 7] VII-VII in **drawing 6** It is a line expanded sectional view.

[Drawing 8] It is the sectional view of the goods support sheet concerning this invention.

[Description of Notations]

A -- Goods firmly attached seat

B -- Goods support sheet

M -- Dirt removal mat

S -- Heterogeneous adhesion double-sided sheet

1 -- Radical Sheet Member

12 -- Glue Line

13 -- Adhesive Layer

2 -- Radical Sheet Member for Mats

41 -- Transmission Section Installation Crevice of Body of Telephone (Suitably Part)

6 -- Racket (Suitably Part)

5 -- Object for Disinfection, or Parts for Deodorization (Goods)

61 -- Rubber for Rackets

71 -- Front Face of Desk (Suitably Part)

8 -- Cop (Goods)

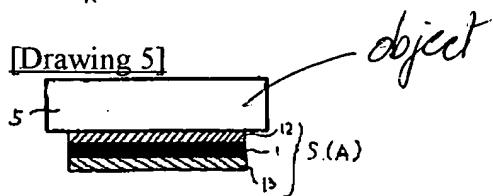
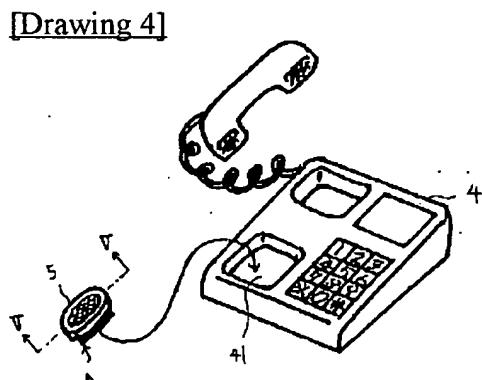
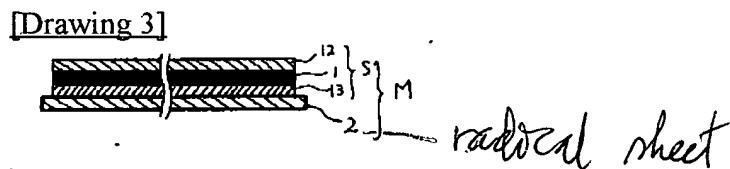
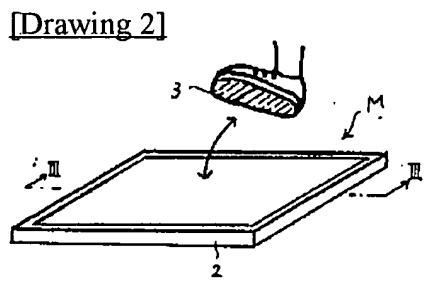
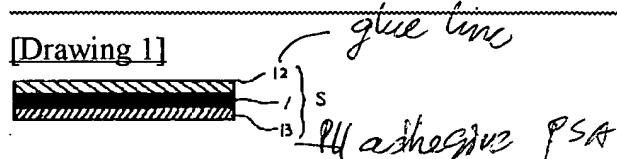
[Translation done.]

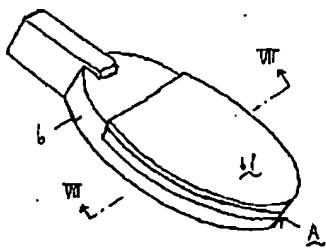
* NOTICES *

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

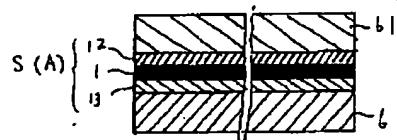
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

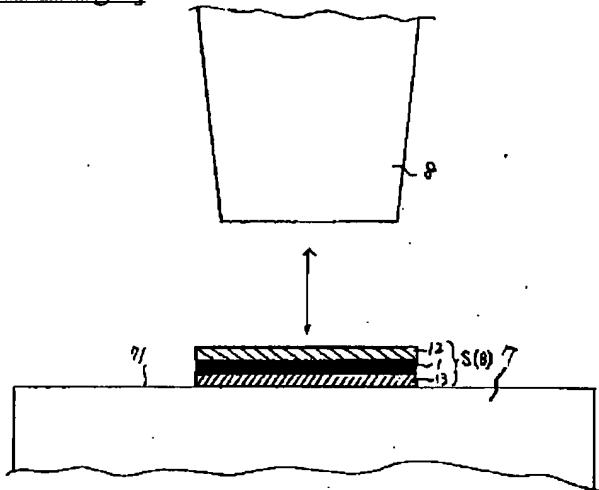
[Drawing 6]



[Drawing 7]



[Drawing 8]



[Translation done.]